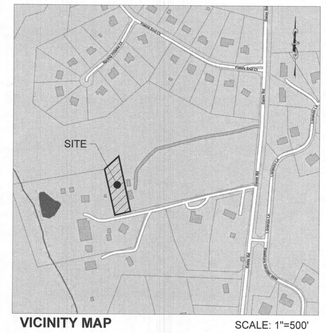


PERCOLATION TEST RESULTS

Test#	Date Test Performed	Depth	Start	Break 1" Drop	Stop 2" Drop	Time of 2nd Inch	P/F/H
1	5/30/2012	3' - 12'	10:59	11:03	11:08	5 MIN	P
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4	5/30/2012	3' - 12'	10:37	10:40	10:47	7 min	P
5	5/30/2012	3.5' - 12'	11:50	11:54	12:00	6 min	P
6	5/30/2012	12'		VISUAL	PASS		P
Average						7 min	



VICINITY MAP SCALE: 1"=500'

GENERAL NOTES

1. Project Name: DAISY ROAD - 1.00A. DAISY ROAD
2. Project Address: 3190 DAISY RD , WOODBINE, MD 21797
3. Owners: AKINBODE FUNMILAYO EUNICE
4. Net Tract Area: 43,553.11 S.F.(1.00AC.)
5. Parcel #: 122
6. Map: 20
7. Grid: 0006
8. Liber: 20158
9. Folio: 00195
10. Tax Account #: 346033
11. Election District Number: 4
12. Zoning: RC-DEO
13. Existing Use: Residential
14. Proposed Use: Residential (Single Family)
15. Setbacks:

	Required	Provided
Front	50'	94.3'
Rear	25'	193.4'
Sides	10'	15.9' & 13.4'

16. The Topography information shown hereon is based on field-run survey, conducted in May, 2021 by CORNERSTONE SURVEYING ,INC. 6024 Clairemont Dr, Owings, MD 20736 It has been verified to accurately represent the relative changes on the subject property.
17. The potable water wells must be installed for 4 ,and the Well Completion Reports approved by the Health Department , prior to Building Permit Approvals for the respective lots.
18. Underground well and sewerage components shown hereon are based on available public records and visible surface evidence, no subsurface exploration has been performed to verify their location.
19. This plat was performed without the benefit of a title report.It does not show every matter affecting ownership and use, nor every matter restricting the ownership on use of the property.

NOTES

1. Any changes to a private sewage easement shall require a revised percolation certification plan.
2. The topography of this plat is taken from field-run survey, conducted in May, 2021 by CORNERSTONE SURVEYING, INC. and is verified to accurately represent the relative changes on the subject property.
3. All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.
4. A purpose statement indicating the purpose of the plan.
5. Certification of compliance with MDE ownership width and lot area requirements for lots created after 1985:
   - The lot(s) shown herein complies/comply with the minimum ownership width and lot area as required by the Maryland Department of Environment
6. MDE statement for lots created after March 1972:
   - "This area designates a private sewage disposal area of at least 10,000 sq. ft. as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This sewage disposal area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage easement Recordation of a revised sewage easement shall not be necessary.
7. Or MDE statement for lots created before March 1972:
   - "This area designates a private sewage area as required by the Maryland Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required by the Howard County Health Department. Improvements of any nature in this area are restricted until public sewerage is available. This area shall become null and void upon connection to a public sewerage system. The county Health Officer shall have the authority to grant adjustments to the private sewage area. Recordation of a modified sewage area shall not be necessary."

Professional Sealed Statement:
"I certify that the information shown herein is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief."

Engineer Signature — 7/24/2023 Date

Mike Razavi — Printed Name — 22742 Registration Number

Health Officer Signature
Approved For Private Water and Private Sewerage Systems

Health Officer, Howard County Health Dept. — Date

LEGEND

FEATURE	SYMBOL	FEATURE	SYMBOL
EXISTING STRUCTURES		PROPOSED END SECTION / RIPRAP	
PROPOSED STRUCTURES		PROP. STORM DRAIN PIPE	8" PVC
BUILDING RESTRICTION LINE	BRL	PROPOSED DOWN-SPOUT	
PROPERTY BOUNDARY LINE		EXISTING WATER WELL	W
EXISTING TOPOGRAPHY	200 192	PROP. WATER HOUSE CONNECTION	WHC
PROPOSED GRADING	200	PROP. SEWER HOUSE CONNECTION	SHC
EXISTING TREE LINE		MICRO BIO-RETENTION	MB-1
EXISTING FENCE	X X	OBSERVATION WELL	OW
LIMIT OF DISTURBANCE	LOD LOD LOD	PRPOSED STORM DRAIN INLET	
OVERHEAD ELECTRIC WIRE	OH OH OH	PRP. SEWER TRENCH	SEWER
PROP. ELECTRICAL CONNECTION	E E E	TO BE REMOVED	(TBR)
EXISTING TREE (TO BE SAVED)		TO BE SAVED	(TBS)
EXISTING TREE (TO BE REMOVED)		PRP. SEWER DISTRIBUTION BOX	
PERCOLATION TEST PIT - PASSED	03	PRP. SEWER CLEANOUT	C.O.
PERCOLATION TEST PIT - FAILED	02	SEVAGE DISPOSAL AREA	
SEWER / WELL BOX SETBACK		PRPOSED SPOT ELEVATION	+535.20

REV#	DATE

PERCOLATION CERTIFICATION PLAN

DAISY ROAD - 1.00A. DAISY RD

PROJECT ADDRESS:
3190 DAISY ROAD, WOODBINE, MD 21797

MAP/ GRID: 20/ 6
TAX ACC.: 346033
PARCEL: 122
ZONING: RC-DEO
LIBER/ FOLIO: 20158/ 196

OWNER/APPLICANT INFO:
AKINBODE FUNMILAYO EUNICE

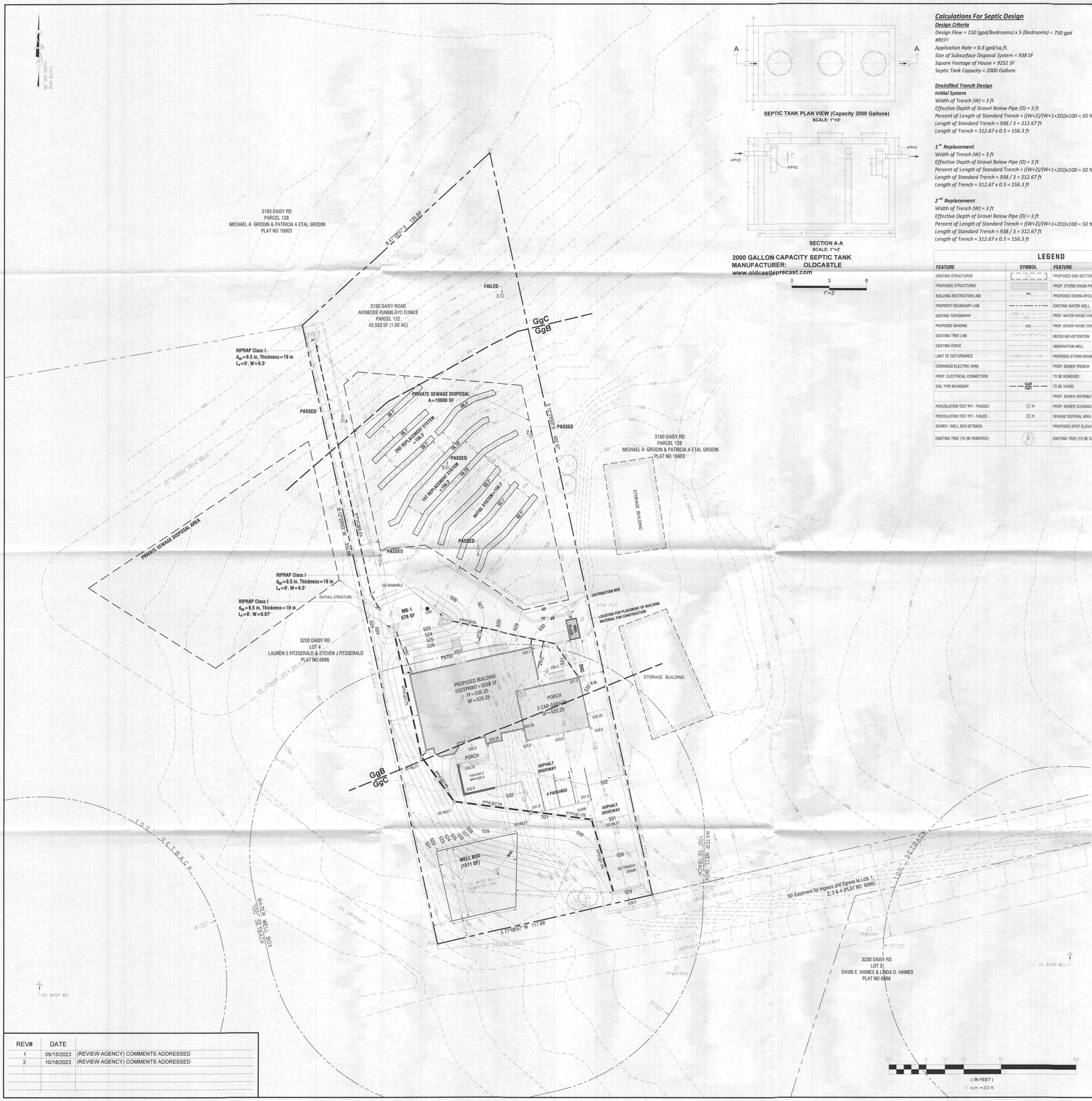
4th DISTRICT
HOWARD COUNTY, MD

RAZTEC ASSOCIATES, INC.
civil engineers & planners
3451 Emys Place, Monrovia, Maryland 21770
Tel: (301) 775-4394
email: raztecengr@comcast.net

PROFESSIONALS' REVIEW STATEMENT:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME , AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NUMBER: 22742 EXPIRES: JUNE 15, 2024

DRAWN BY: PG CHECKED BY: MR	DATE JULY, 2023	SCALE 1"=20'	SHEET NUMBER PCP 1 OF 1

GP-23-063



SEPTIC TANK PLAN VIEW (Capacity 2000 Gallons)
SCALE: 1"=3'

SECTION A-A
SCALE: 1"=3'

2000 GALLON CAPACITY SEPTIC TANK
MANUFACTURER: OLDCASTLE
www.oldcastleprecast.com

0 3 6
1"=3'

Calculations For Septic Design

Design Criteria

Design Flow = 150 (gpd/Bedrooms) x 5 (Bedrooms) = 750 gpd
#REF!
Application Rate = 0.8 gpd/sq.ft.
Size of Subsurface Disposal System = 938 SF
Square Footage of House = 9251 SF
Septic Tank Capacity = 2000 Gallons

Drainfiled Trench Design

Initial System

Width of Trench (W) = 3 ft
Effective Depth of Gravel Below Pipe (D) = 3 ft
Percent of Length of Standard Trench = ((W+2)/(W+1+2D))x100 = 50 %
Length of Standard Trench = 938 / 3 = 312.67 ft
Length of Trench = 312.67 x 0.5 = 156.3 ft

1st Replacement

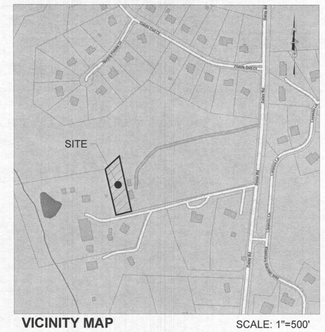
Width of Trench (W) = 3 ft
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Percent of Length of Standard Trench = ((W+2)/(W+1+2D))x100 = 50 %
Length of Standard Trench = 938 / 3 = 312.67 ft
Length of Trench = 312.67 x 0.5 = 156.3 ft

2nd Replacement

Width of Trench (W) = 3 ft
Effective Depth of Gravel Below Pipe (D) = 3 ft
Percent of Length of Standard Trench = ((W+2)/(W+1+2D))x100 = 50 %
Length of Standard Trench = 938 / 3 = 312.67 ft
Length of Trench = 312.67 x 0.5 = 156.3 ft

LEGEND

FEATURE	SYMBOL	FEATURE	SYMBOL
EXISTING STRUCTURES		PROPOSED END SECTION / RIPRAP	
PROPOSED STRUCTURES		PROP. STORM DRAIN PIPE	6"PVC
BUILDING RESTRICTION LINE	BRL	PROPOSED DOWN-SPOUT	
PROPERTY BOUNDARY LINE		EXISTING WATER WELL	
EXISTING TOPOGRAPHY	200 / 192	PROP. WATER HOUSE CONNECTION	WHC
PROPOSED GRADING	200	PROP. SEWER HOUSE CONNECTION	SHC
EXISTING TREE LINE		MICRO BIO-RETENTION	MB-1
EXISTING FENCE		OBSERVATION WELL	OW
LIMIT OF DISTURBANCE	LOD	PROPOSED STORM DRAIN INLET	
OVERHEAD ELECTRIC WIRE	OH	PROP. SEWER TRENCH	TR
PROP. ELECTRICAL CONNECTION	E	TO BE REMOVED	(TBR)
SOIL TYPE BOUNDARY	GgB / GgC	TO BE SAVED	(TBS)
		PROP. SEWER DISTRIBUTION BOX	
PERCOLATION TEST PIT - PASSED	33	PROP. SEWER CLEANOUT	C.O.
PERCOLATION TEST PIT - FAILED	22	SEWAGE DISPOSAL AREA	
SEWER / WELL BOX SETBACK		PROPOSED SPOT ELEVATION	+ 535.20
EXISTING TREE (TO BE REMOVED)		EXISTING TREE (TO BE SAVED)	



VICINITY MAP SCALE: 1"=500'

PERCOLATION TEST RESULTS

Test#	Date Test Performed	Depth	Start	Break 1" Drop	Stop 2" Drop	Time of 2nd Inch	P/F/H
1	5/30/2012	3' - 12'	10:59	11:03	11:08	5 MIN	P
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6	5/30/2012	12'		VISUAL	PASS		P
Average						**7 min**	

GENERAL NOTES

1. Project Name: DAISY ROAD - 1.00A. DAISY ROAD
2. Project Address: 3190 DAISY RD , WOODBINE, MD 21797
3. Owners: AKINBODE FUNMILAYO EUNICE
4. Net Tract Area: 43,553.11 S.F.(1.00AC.)
5. Parcel #: 122
6. Map: 20
7. Grid: 0006
8. Liber: 20158
9. Folio: 00195
10. Tax Account #: 346033
11. Election District Number: 4
12. Zoning: RC-DEO
13. Existing Use: Residential
14. Proposed Use: Residential (Single Family)
15. Setbacks:

	Required	Provided
Front	50'	94.3'
Rear	25'	193.4'
Sides	10'	15.9' & 13.4'

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NOTES

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5. Certification of compliance with MDE ownership width and lot area requirements for lots created after 1985:
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Professional Sealed Statement:

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Engineer Signature — 9/15/2023 Date

Mohammad M. Razavi — 22742
Printed Name — Registration Number

Health Officer Signature

Approved For Private Water and Private Sewerage Systems

Health Officer, Howard County Health Dept. — Date

PERCOLATION CERTIFICATION PLAN

DAISY ROAD - 1.00A. DAISY RD

PROJECT ADDRESS:
3190 DAISY ROAD, WOODBINE, MD 21797

OWNER/APPLICANT INFO:
AKINBODE FUNMILAYO EUNICE

MAP/ GRID: 20/ 6
TAX ACC.: 346033
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4th DISTRICT
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Tel: (301) 775-4394
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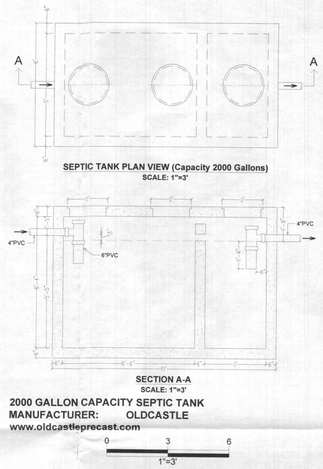
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DRAWN BY: PG / CHECKED BY: MR	DATE: OCT, 2023	SCALE: 1"=20'	SHEET NUMBER: PCP 1 OF 1

REV#	DATE	
1	09/15/2023	(REVIEW AGENCY) COMMENTS ADDRESSED
2	10/18/2023	(REVIEW AGENCY) COMMENTS ADDRESSED

GP-23-063





Calculations For Septic Design

Design Criteria

Design Flow = 150 (gpd/Bedrooms) x 5 (Bedrooms) = 750 gpd
#REF!
Application Rate = 0.8 gpd/sq.ft.
Size of Subsurface Disposal System = 938 SF
Square Footage of House = 9251 SF
Septic Tank Capacity = 2000 Gallons

Drainfiled Trench Design

Initial System

Width of Trench (W) = 3 ft
Effective Depth of Gravel Below Pipe (D) = 3 ft
Percent of Length of Standard Trench = ((W+2)/(W+1+2D))x100 = 50 %
Length of Standard Trench = 938 / 3 = 312.67 ft
Length of Trench = 312.67 x 0.5 = 156.3 ft

1st Replacement

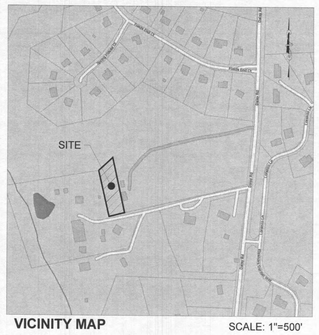
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LEGEND

FEATURE	SYMBOL	FEATURE	SYMBOL
EXISTING STRUCTURES		PROPOSED END SECTION / RIPRAP	
PROPOSED STRUCTURES	BRL	PROP. STORM DRAIN PIPE	8"PVC
BUILDING RESTRICTION LINE		PROPOSED DOWN-SPOUT	
PROPERTY BOUNDARY LINE		EXISTING WATER WELL	
EXISTING TOPOGRAPHY	200 / 192	PROP. WATER HOUSE CONNECTION	WHC
PROPOSED GRADING	200	PROP. SEWER HOUSE CONNECTION	SHC
EXISTING TREE LINE		MICRO BIO-RETENTION	MB-1
EXISTING FENCE		OBSERVATION WELL	ON
LIMIT OF DISTURBANCE	LOD LOD LOD	PROPOSED STORM DRAIN INLET	
OVERHEAD ELECTRIC WIRE	OH	PROP. SEWER TRENCH	
PROP. ELECTRICAL CONNECTION	E E	TO BE REMOVED	(TBR)
SOIL TYPE BOUNDARY	GaB GgC	TO BE SAVED	(TBS)
		PROP. SEWER DISTRIBUTION BOX	
PERCOLATION TEST PIT - PASSED	33	PROP. SEWER CLEANOUT	C.O
PERCOLATION TEST PIT - FAILED	22	SEWAGE DISPOSAL AREA	
SEWER / WELL BOX SETBACK		PROPOSED SPOT ELEVATION	535.20
EXISTING TREE (TO BE REMOVED)		EXISTING TREE (TO BE SAVED)	



VICINITY MAP SCALE: 1"=500'

PERCOLATION TEST RESULTS

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4.	Net Tract Area:	43,553.11 S.F.(1.00AC.)	
5.	Parcel #:	122	
6.	Map:	20	
7.	Grid:	0006	
8.	Liber:	20158	
9.	Folio:	00195	
10.	Tax Account #:	346033	
11.	Election District Number:	4	
12.	Zoning:	RC-DEO	
13.	Existing Use:	Residential	
14.	Proposed Use:	Residential (Single Family)	
15.	Setbacks:	Required	Provided
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Engineer Signature — 9/15/2023 Date

Mohammad M. Razavi — Printed Name — 22742 Registration Number

Health Officer Signature

Approved For Private Water and Private Sewerage Systems

Health Officer, Howard County Health Dept. — Date

PERCOLATION CERTIFICATION PLAN

DAISY ROAD - 1.00A. DAISY RD

PROJECT ADDRESS: 3190 DAISY ROAD, WOODBINE, MD 21797

OWNER/APPLICANT INFO: AKINBODE FUNMILAYO EUNICE

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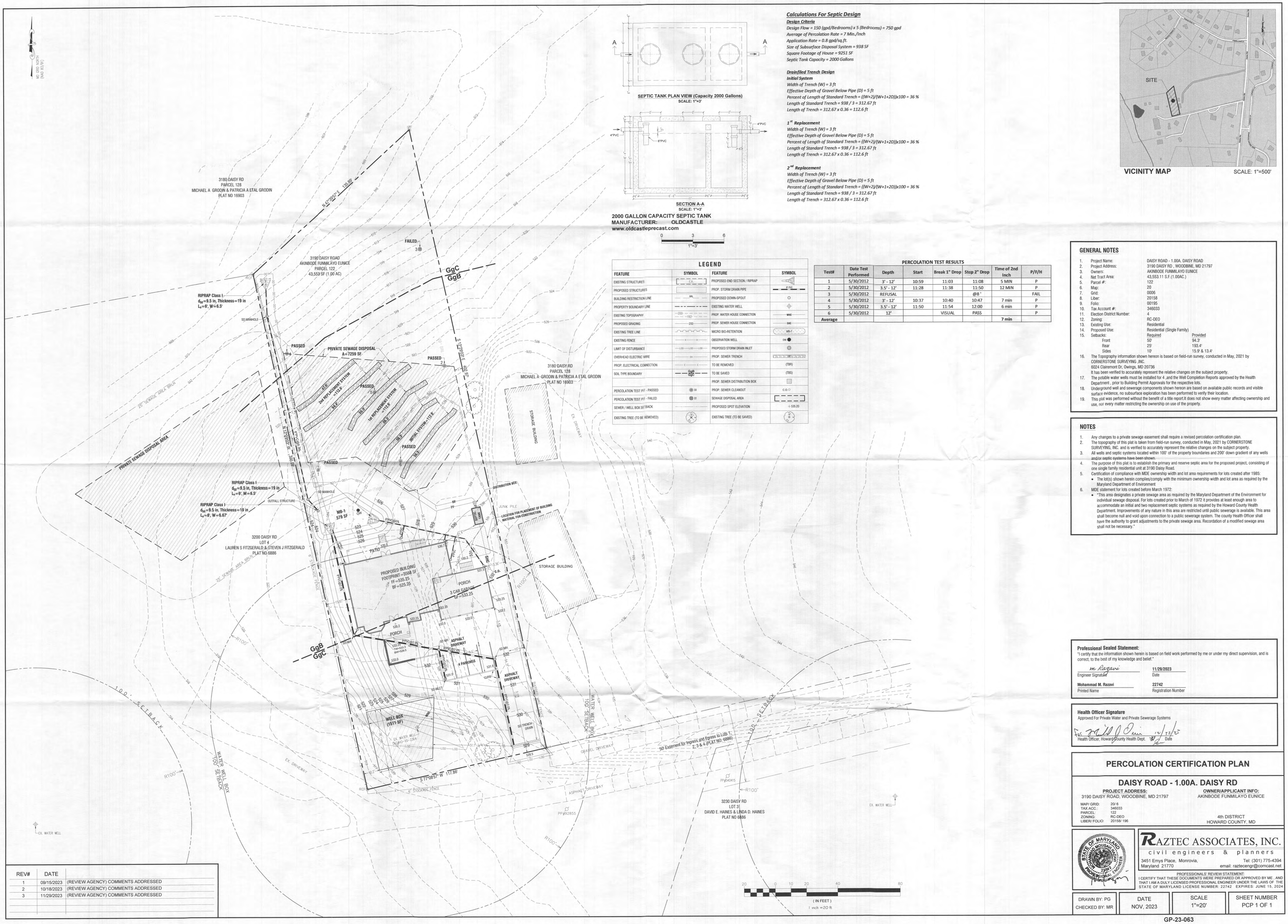
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DRAWN BY: PG CHECKED BY: MR	DATE OCT, 2023	SCALE 1"=20'	SHEET NUMBER PCP 1 OF 1

REV#	DATE	
1	09/15/2023	(REVIEW AGENCY) COMMENTS ADDRESSED
2	10/18/2023	(REVIEW AGENCY) COMMENTS ADDRESSED

GP-23-063



2000 GALLON CAPACITY SEPTIC TANK
MANUFACTURER: OLDCASTLE
www.oldcastleprecast.com

0 3 6
1"=3'

LEGEND

FEATURE	SYMBOL	FEATURE	SYMBOL
EXISTING STRUCTURE		PROPOSED END SECTION / RIPRAP	
PROPOSED STRUCTURE		PROP. STORM DRAIN PIPE	8" PC
BUILDING RESTRICTION LINE	BRL	PROPOSED DOWN-SPOUT	
PROPERTY BOUNDARY LINE		EXISTING WATER WELL	
EXISTING TOPOGRAPHY	200 / 192	PROP. WATER HOUSE CONNECTION	WHC
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EXISTING TREE LINE		MICRO BIO-RETENTION	MB-1
EXISTING FENCE		OBSERVATION WELL	OW
LIMIT OF DISTURBANCE	LOD LOD LOD	PROPOSED STORM DRAIN INLET	
OVERHEAD ELECTRIC WIRE	OH	PROP. SEWER TRENCH	
PROP. ELECTRICAL CONNECTION	E E	TO BE REMOVED	(TBR)
SOIL TYPE BOUNDARY	GgB GgC	TO BE SAVED	(TBS)
		PROP. SEWER DISTRIBUTION BOX	
PERCOLATION TEST PIT - PASSED	33	PROP. SEWER CLEANOUT	C.O.
PERCOLATION TEST PIT - FAILED	22	SEWAGE DISPOSAL AREA	
SEWER / WELL BOX SETBACK		PROPOSED SPOT ELEVATION	+535.20
EXISTING TREE (TO BE REMOVED)		EXISTING TREE (TO BE SAVED)	

Calculations For Septic Design

Design Criteria

Design Flow = 150 (gpd/Bedrooms) x 5 (Bedrooms) = 750 gpd
Average of Percolation Rate = 7 Min./Inch
Application Rate = 0.8 gpd/sq.ft.
Size of Subsurface Disposal System = 938 SF
Square Footage of House = 9251 SF
Septic Tank Capacity = 2000 Gallons

Drainfiled Trench Design

Initial System

Width of Trench (W) = 3 ft
Effective Depth of Gravel Below Pipe (D) = 5 ft
Percent of Length of Standard Trench = ((W+2)/(W+1+2D))x100 = 36 %
Length of Standard Trench = 938 / 3 = 312.67 ft
Length of Trench = 312.67 x 0.36 = 112.6 ft

1st Replacement

Width of Trench (W) = 3 ft
Effective Depth of Gravel Below Pipe (D) = 5 ft
Percent of Length of Standard Trench = ((W+2)/(W+1+2D))x100 = 36 %
Length of Standard Trench = 938 / 3 = 312.67 ft
Length of Trench = 312.67 x 0.36 = 112.6 ft

2nd Replacement

Width of Trench (W) = 3 ft
Effective Depth of Gravel Below Pipe (D) = 5 ft
Percent of Length of Standard Trench = ((W+2)/(W+1+2D))x100 = 36 %
Length of Standard Trench = 938 / 3 = 312.67 ft
Length of Trench = 312.67 x 0.36 = 112.6 ft

PERCOLATION TEST RESULTS

Test#	Date Test Performed	Depth	Start	Break 1" Drop	Stop 2" Drop	Time of 2nd Inch	P/F/H
1	5/30/2012	3' - 12'	10:59	11:03	11:08	5 MIN	P
2	5/30/2012	3.5' - 12'	11:28	11:38	11:50	12 MIN	P
3	5/30/2012	REFUSAL			@8 '		FAIL
4	5/30/2012	3' - 12'	10:37	10:40	10:47	7 min	P
5	5/30/2012	3.5' - 12'	11:50	11:54	12:00	6 min	P
6	5/30/2012	12'		VISUAL	PASS		P
Average						**7 min**	

GENERAL NOTES

1. Project Name: DAISY ROAD - 1.00A. DAISY ROAD
2. Project Address: 3190 DAISY RD , WOODBINE, MD 21797
3. Owners: AKINBODE FUNMILAYO EUNICE
4. Net Tract Area: 43,553.11 S.F.(1.00AC.)
5. Parcel #: 122
6. Map: 20
7. Grid: 0006
8. Liber: 20158
9. Folio: 00195
10. Tax Account #: 346033
11. Election District Number: 4
12. Zoning: RC-DEO
13. Existing Use: Residential
14. Proposed Use: Residential (Single Family)
15. Setbacks:

	Required	Provided
Front	50'	94.3'
Rear	25'	193.4'
Sides	10'	15.9' & 13.4'

16. The Topography information shown hereon is based on field-run survey, conducted in May, 2021 by CORNERSTONE SURVEYING ,INC. 6024 Clairemont Dr, Owings, MD 20736 It has been verified to accurately represent the relative changes on the subject property.
17. The potable water wells must be installed for 4 ,and the Well Completion Reports approved by the Health Department , prior to Building Permit Approvals for the respective lots.
18. Underground well and sewerage components shown hereon are based on available public records and visible surface evidence, no subsurface exploration has been performed to verify their location.
19. This plat was performed without the benefit of a title report.It does not show every matter affecting ownership and use, nor every matter restricting the ownership on use of the property.

NOTES

1. Any changes to a private sewage easement shall require a revised percolation certification plan.
2. The topography of this plat is taken from field-run survey, conducted in May, 2021 by CORNERSTONE SURVEYING, INC. and is verified to accurately represent the relative changes on the subject property.
3. All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.
4. The purpose of this plat is to establish the primary and reserve septic area for the proposed project, consisting of one single family residential unit at 3190 Daisy Road.
5. Certification of compliance with MDE ownership width and lot area requirements for lots created after 1985:
   - The lot(s) shown herein complies/comply with the minimum ownership width and lot area as required by the Maryland Department of Environment
6. MDE statement for lots created before March 1972:
   - "This area designates a private sewage area as required by the Maryland Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required by the Howard County Health Department. Improvements of any nature in this area are restricted until public sewerage is available. This area shall become null and void upon connection to a public sewerage system. The county Health Officer shall have the authority to grant adjustments to the private sewage area. Recordation of a modified sewage area shall not be necessary."

Professional Sealed Statement:
"I certify that the information shown herein is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief."

m Razavi — Engineer Signature — 11/29/2023 — Date
Mohammad M. Razavi — Printed Name — 22742 — Registration Number

Health Officer Signature
Approved For Private Water and Private Sewerage Systems

For Maura J. Rossman 12/7/23
Health Officer, Howard County Health Dept. — Date

PERCOLATION CERTIFICATION PLAN

DAISY ROAD - 1.00A. DAISY RD

PROJECT ADDRESS:
3190 DAISY ROAD, WOODBINE, MD 21797

OWNER/APPLICANT INFO:
AKINBODE FUNMILAYO EUNICE

MAP/ GRID: 20/ 6
TAX ACC.: 346033
PARCEL: 122
ZONING: RC-DEO
LIBER/ FOLIO: 20158/ 196

4th DISTRICT
HOWARD COUNTY, MD

RAZTEC ASSOCIATES, INC.
civil engineers & planners
3451 Emys Place, Monrovia, Maryland 21770
Tel: (301) 775-4394
email: raztecengr@comcast.net

PROFESSIONALS' REVIEW STATEMENT:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME , AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NUMBER: 22742 EXPIRES: JUNE 15, 2024

DRAWN BY: PG CHECKED BY: MR	DATE NOV, 2023	SCALE 1"=20'	SHEET NUMBER PCP 1 OF 1

GP-23-063

REV#	DATE	
1	09/15/2023	(REVIEW AGENCY) COMMENTS ADDRESSED
2	10/18/2023	(REVIEW AGENCY) COMMENTS ADDRESSED
3	11/29/2023	(REVIEW AGENCY) COMMENTS ADDRESSED